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**Solid Waste Management Facilities Plan
for
Alameda County**

(A part of the Solid Waste Management Plan for Alameda County)

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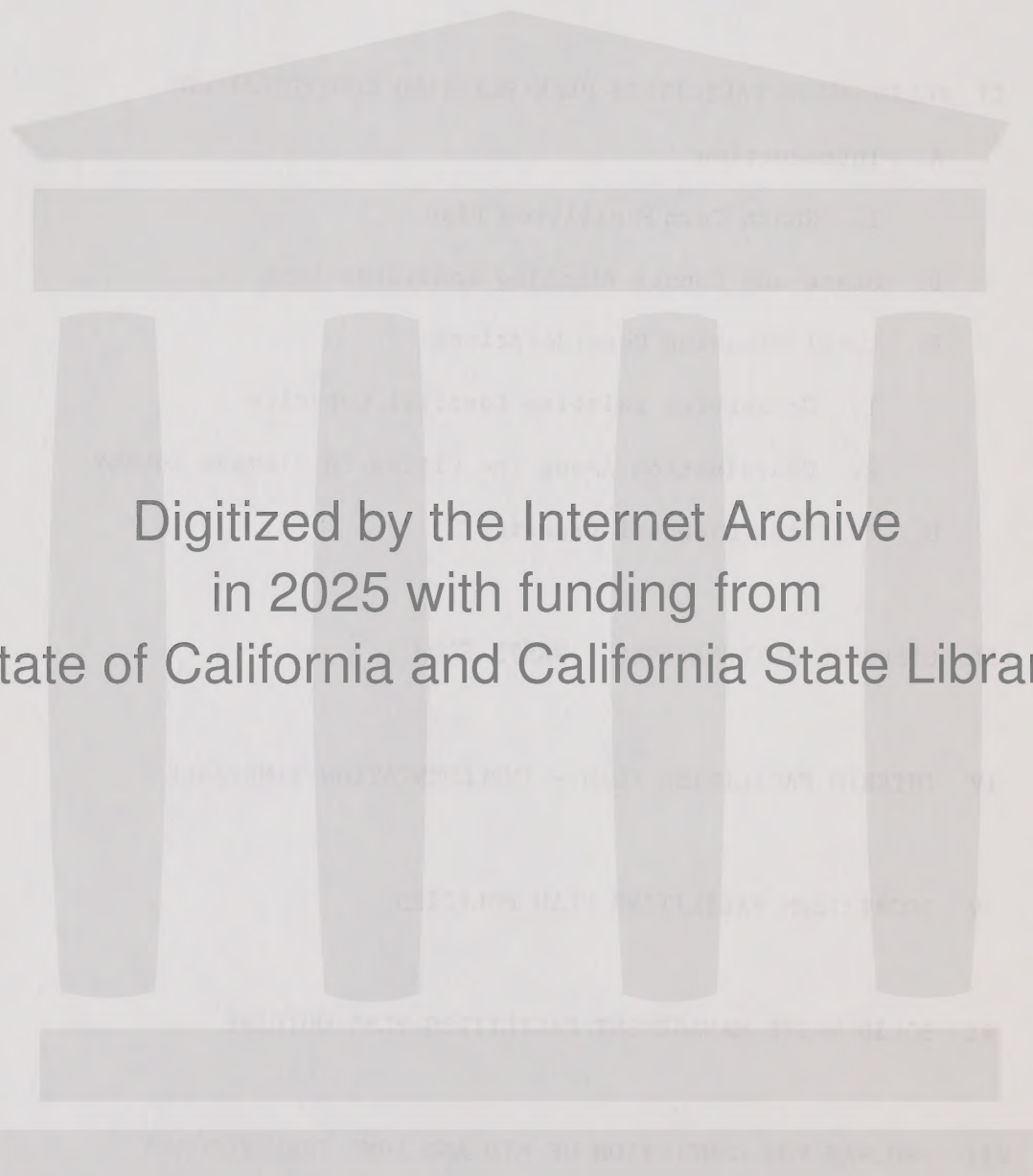
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**ALAMEDA COUNTY SOLID WASTE MANAGEMENT AUTHORITY
ADOPTED MARCH 16, 1977**

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I BACKGROUND TO THE FACILITIES PLAN

A. Developing the Solid Waste Management Plan

On July 13, 1972, the Governor approved Senate Bill 5 adding Title 7.3, Section 66700 et. seq., to the Government Code, providing that each county prepare, subject to the approval of the plan by a majority of the cities within the county containing a majority of the population within the incorporated area of the county, a comprehensive, coordinated solid waste management plan for all waste generated within the county to be disposed in or outside the county. The Legislature's declared intent is that primary responsibility for adequate solid waste management planning shall rest with local government.

In June, 1972, the Alameda County Board of Supervisors designated the Planning Commission as the appropriate agency to handle solid waste management planning in Alameda County. The Board, in December, 1972, began appointments of the 23-member Solid Waste Management Plan Advisory Committee, consisting of five representatives of the Mayors' Conferences; five from the operators, including the East Bay Municipal Utility District; ten from the public; and three from the Comprehensive Health Planning Council. A Technical Advisory Committee, consisting of staff members of representatives of Federal, State, regional, County, city, and special districts, and the industries, was formed. Both groups met at least monthly since April, 1973.

To facilitate the required approval of the cities within the County, the Alameda County Solid Waste Management Plan Interim Council, composed of one representative each of the County, the cities and Castro Valley, Oro Loma and Valley Community Services Districts was formed in February, 1976. The Interim Council was specifically charged with drafting a Joint Exercise of Powers Agreement to establish an agency to implement and be a part of the Solid Waste Management Plan.

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The plan was approved by the Board of Supervisors on May 18, 1976, and was transmitted to cities and special districts for review, public hearing and approval or disapproval by resolution with report back to the Board of Supervisors.

During the month of August, 1976, the cities and special districts signed the Joint Powers Agreement; on September 2, 1976, the Board signed the Agreement and transmitted it along with the resolution of 12 cities approving the Plan and one city disapproving the Plan (Newark) on to the State. This completed a first step in local Government responsibility under the requirements of SB5.

In November, 1976, in accord with the provisions of the Joint Powers Agreement, elected officials of the County, thirteen cities and three special districts formed the Solid Waste Management Authority whose initial purpose was to prepare a facilities plan to supplement the approved policies plan submitted to the state in September, 1976.

II. SOLID WASTE FACILITIES PLAN - PLANNING CONSIDERATIONS

A. INTRODUCTION

This present plan, the Alameda County Solid Waste Management Facilities Plan is a part of and supplement to the Alameda County Solid Waste Management Plan adopted by the Alameda County Board of Supervisors on May 18, 1976. That plan is essentially a policies plan which is supplemented by this present Facilities Plan. The Facilities Plan consists of:

1. Part I - Short Term Facilities Plan
2. Solid Waste Management Preliminary Guidelines for Mid & Long Term Plan
3. Program for Completion of Mid and Long Term Plan
 - a. Responsibility for Study
 - b. Study Timetable
 - c. Method of Financing Study

1. SHORT TERM FACILITIES PLAN

The Short Term Facilities Plan Section of the Facilities Plan indicates that there would be continued disposal at existing West Alameda County Sites between January 1977 and July 1979; that in January 1977 a program for disposal for 2½ years at an east county site would be undertaken and that between January and July 1979 long haul to an east county site would begin.

This would allow 2½ years for preparation of a mid and long-term plan and implementation of a mid term plan. The complete Implementation Timetable is on Page I-24.

The short term facilities plan included herein describes the capacities of existing and potential sites to handle the short term disposal needs for the Central Metropolitan and Eden Planning Units. Because the Washington and Livermore-Amador Planning Units have sufficient capacity in the short-term, those areas are not considered in detail here.

B. State and County Planning Considerations

The State policy for solid waste management establishes a 20 year planning horizon for all waste disposal facilities in local plans. Regardless of the level of resource and energy recovery in Alameda County, adequate collection, transport, and disposal facilities must be provided. It is the policy and goal of the Solid Waste Management Authority of Alameda County to strive for a maximum amount of technically and economically feasible resource and energy recovery from solid wastes. When such systems are in full operation, municipal (and some industrial) wastes may be reduced by 60-90%. However, while mid and long range systems will require substantial study and evaluation in the months ahead, short term problems of transport and disposal must be resolved now for the Central Metropolitan and Eden Planning Units.

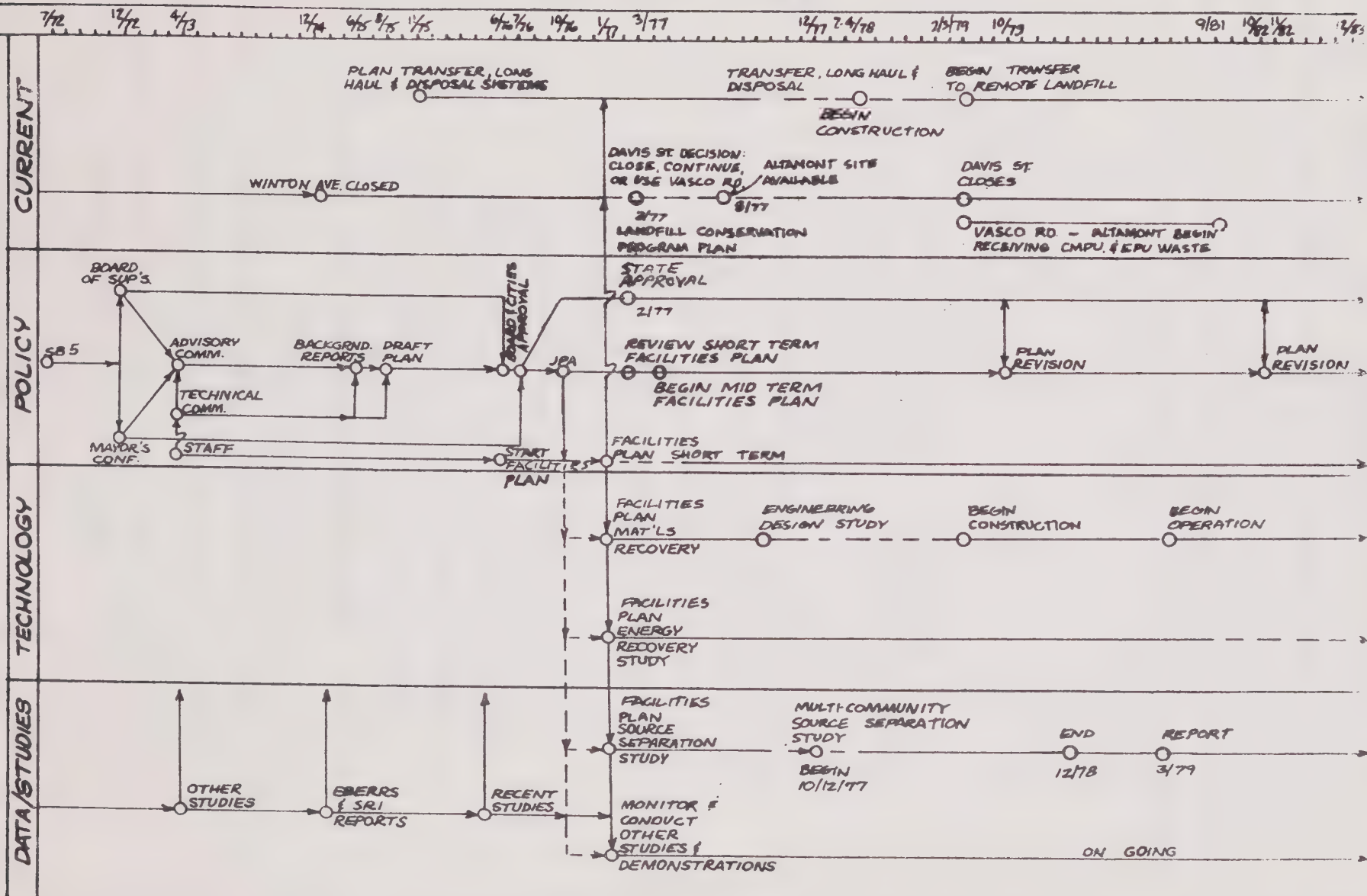
As of January, 1977, over a million tons of garbage per year must be buried in eight local landfills. Two additional sites are approved but not yet in operation (Altamont I and Vasco II).¹ (See Figure I-2). Many of the close-in disposal sites in western Alameda County are located adjacent to or in bay tide lands and have existing or persistent environmental problems. Many are at or near design capacity. The planning for new and expanded disposal capacity has been the focus of much discussion over the past 2-3 years. To their detriment, resource recovery programs have had much less attention than land disposal. This section of the Facilities Plan summarizes the present landfill disposal situation. It could be but has not yet become a crisis situation. The present situation serves as a foundation so that strategy may be developed for the phasing-in of existing, expanded or new facilities.

Reference is made to the State policy and guidelines for Solid Waste Management and Plans. Perhaps the biggest single constraint established by the State Solid Waste Management Board is the goal of 25% reduction in waste entering landfills by 1980. While this plan covers the short-term period until mid 1979, planning for transfer and recovery facilities must begin immediately (March 1977) in order to actively pursue the state waste reduction goal.

¹As soon as this short term facilities plan is approved locally and by the State, the Altamont Site achieves full approval and may be phased in as indicated in this plan. Vasco II has all the necessary permits and approvals.

Figure I-1

SOLID WASTE MANAGEMENT PROJECT FLOW CHART ALAMEDA COUNTY



Local Planning policy is codified in the recently adopted County Solid Waste Management Plan. Policies regarding landfill have been fully discussed and may be summarized by reiterating the policy that a minimum number of landfill sites should be chosen with adequate capacity for the needs of the county and that facilities be centralized to facilitate operational control and opportunities for resource recovery. Other policies should be reviewed to guide short term decisions.

C. Local Planning Considerations

1. Conserving Existing Landfill Capacity

While the County Solid Waste Management Authority and individual cities within the County and the scavenger industry are all moving to implement new solid waste facilities and programs, remaining capacity at existing west county landfills is approaching critically low levels. If delays are encountered in construction of new transfer facilities, the potential crisis looms even larger. A program to avert or mitigate the problems of running out of landfill disposal capacity in the short-term, may be taken immediately to conserve the capacity that now exists.

- a) First in terms of its potential to conserve landfill space, landfill operators can work to achieve higher compacted in-place densities. Higher densities are achieved with both newer and better equipment and by spending more time (and cost) to compact the refuse with whatever equipment is available. Most landfill operators in Alameda County compact refuse to a density of about 1,200 pounds/cubic yard. Densities of up to 2,000 lbs/cubic yards can be attained. If an average compacted in-place density of 1,800 lbs./cubic yard could be achieved by obtaining better equipment now and using it more fully, landfill capacity at the critical sites could be increased by about 50 percent.

- b) Another measure with potential for reducing the volume of wastes going to landfill presently available is community recycling (source separation). While there are some extreme limits dictated by secondary materials markets, existing recycling efforts could be supported and expanded to higher participation rates and larger service areas. A program of this type has a potential for reducing wastes otherwise bound for landfill by 10-30%.
- c) Finally, certain measures which reduce the amount of matter which becomes waste (source reduction) may be taken although these measures are often difficult to implement quickly. An example of such a measure is the Berkeley "Bottle Bill" but this program is presently and indefinitely stalled in litigation. Perhaps the most feasible short-term source reduction measure would be a campaign encouraging citizens to repair and continue using their consumer goods rather than discarding them.

2. Coordination Among the Cities in Alameda County

During the discussions on the solid waste management plan it became apparent that facility planning must accomodate the individual wishes of the cities and coordinate activities occuring throughout the county so that an efficient waste disposal system results. In the short-term, the City of San Leandro is re-examining the disposal activities at the Davis Street site.

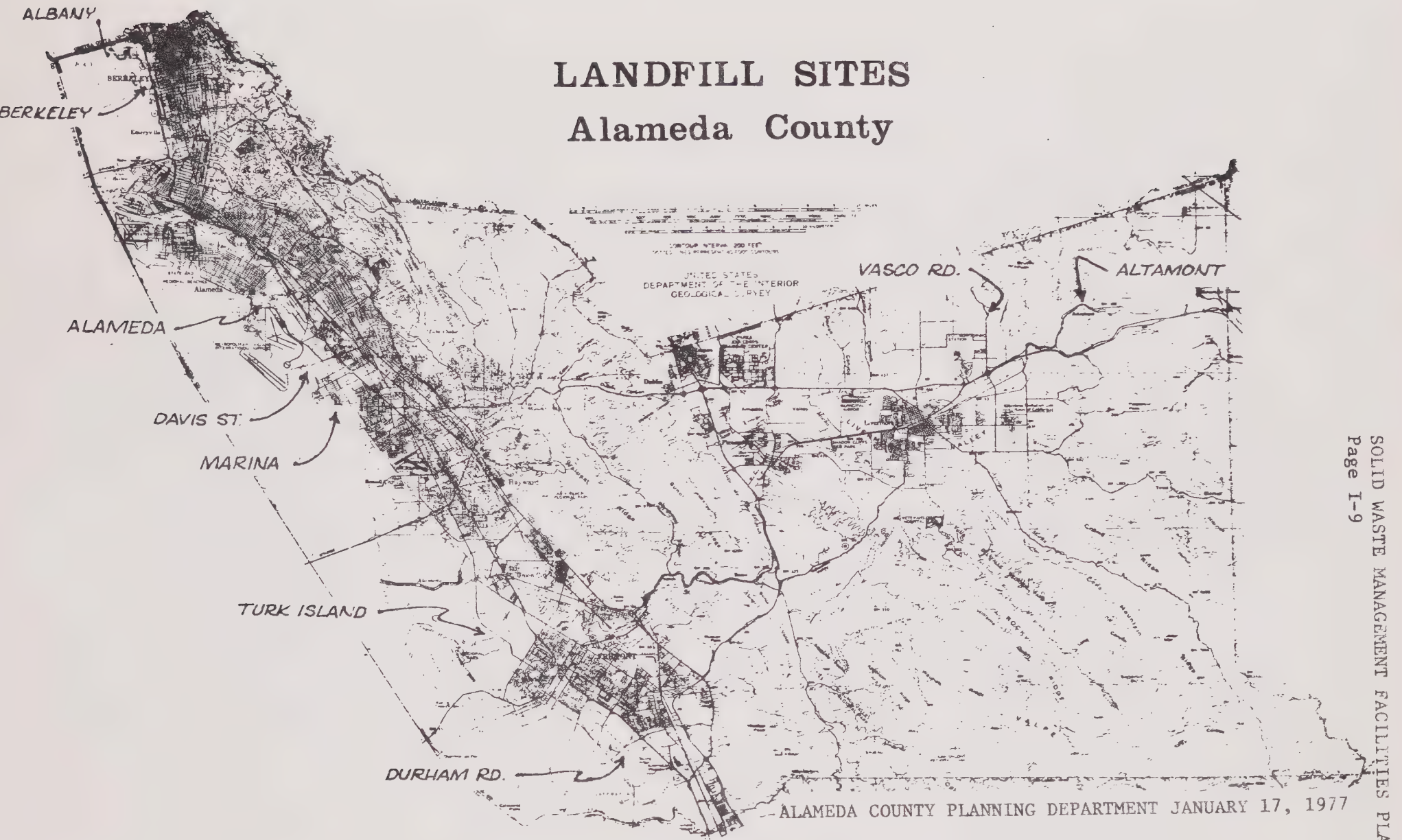
In the longer term, the City of Berkeley has purchased land and has begun planning to build a transfer station and performing other resource conserving activities at the source or at the transfer station. The City of Alameda has investigated energy recovery in conjunction with the U.S. Naval Station at Alameda. The City of Pleasanton has just opened a transfer station which can process 100-150 tons of refuse per day. Finally, the City of Livermore is evaluating a source separation ordinance.

City of Berkeley

The Director of Public Works of the City of Berkeley on January 4, 1977, advised that the Berkeley City Council with input from the Berkeley Solid Waste Management Commission is proceeding towards the goal of designing and building a comprehensive, citywide, solid waste management and resource recovery system and phasing out the current landfill operation at the Berkeley Marina. An architectural/engineering consultant has been retained to investigate Berkeley's present and future solid waste quantities and characteristics and prepare a preliminary design and cost analysis for a transfer and resource recovery station to be located on the City's Gilman Street property. Primary objectives of the program will be to reduce the amount of waste generated and handled, recover the maximum amount of resources from the resulting waste flow and manage the residue at least cost; the consultant's feasibility study is expected to take one year with design and construction of the transfer/resource recovery station requiring an additional one to two years; the facility could come on-line in 1979 to early 1980.

Although some bay water quality problems at the Berkeley landfill have caused a temporary closure of the northerly 10 acres of that site, city officials believe the problems can be resolved and that the site will be able to serve until the new Gilman Street facility has completed its check-out period in 1979-1980. At that time, Berkeley hopes to supply organic waste materials to the Bay Delta composting demonstration project and/or to an energy recovery plant (Alameda, Oakland, or San Leandro). If neither of these possibilities exist when the Berkeley landfill is closed, the City will choose the most economical long haul and landfill combination that is available to them, perhaps rented equipment hauling to the Vasco Road Site near Livermore.

Figure I-2



The City's collection vehicles are not in condition to long haul directly.

City of Alameda

The Manager of the Alameda Bureau of Electricity on January 4, 1977, advised that the Bureau is further solidifying agreements for the Alameda Solid Waste electricity Conversion plant which is anticipated to be in operation by 1980 or 1981. A preliminary engineering study has been completed and an environmental identification report has been undertaken. There is a need to prove that the proposed project is economically feasible.

The plant is anticipated to handle 800-1200 tons per day, of which 200 tons per day would be from the City of Alameda and 600 or more from the Navy. A preliminary site study indicated five or six alternative locations. They are looking at the potential of water transportation of imported waste. The plant would reclaim ferritic material, aluminum, glass and sand and it is hoped that fly ash could be used for road building.

It is estimated that the energy reclamation project would save the city 35 to 100 million dollars over a 20 year period. There is sufficient capacity in the Alameda landfill to last the City until 1980 or 1981, the anticipated start-up date.

City of San Leandro

The City of San Leandro while reviewing the disposal permit for the Davis Street disposal site has temporarily limited disposal through March, 1977. The City has done this to allow time to design additional contouring in conjunction with the scavenger company and East Bay Regional Park District. Upon successful completion of a contouring design for the bay lands recreation area, an additional disposal capacity of approximately 2 years should result.

For this reason, continued use of this site should be anticipated and encouraged by the Solid Waste Authority.

Application has been submitted for construction by Oakland Scavenger Company of a transfer station at the most easterly portion of the Oakland Scavenger disposal site at the foot of Davis Street. Reclassification of the site to a zoning district allowing this use has been approved by the City of San Leandro, but conditional use approval for the transfer station itself will be required. An environmental impact report is being completed, and hearings on the transfer station should be held in May, 1977. Proposed capacity of the transfer station is 3,000 tons average daily capacity. This transfer station would serve the Central Metropolitan and the Eden Planning Units; the proposed capacity is adequate to serve these planning units. Construction is projected at 18 months following approval, with construction projected to commence in July, 1977. Review and approval by the City of San Leandro, the Alameda County Solid Waste Management Board, and the State Solid Waste Management Board is required.

It will be necessary for each of these forthcoming changes in the waste management system to be reviewed, coordinated, and approved by the Alameda County Solid Waste Management Authority as well as by the State Solid Waste Management Board. Furthermore, while some of these ideas are far reaching they will impact county short-, mid-, and long-range facilities planning.

Any jurisdiction which can use and import garbage can develop a sophisticated system for dealing with the program and may proceed as long as the system added is advanced or improved over burial and is in conformance with the goals of the plan.

D. Existing Disposal Capacity

In 1974 there were 11 disposal sites operating in Alameda County. These sites were accepting municipal and industrial wastes as well as relatively inert demolition debris. In January, 1977, eight sites (Table I-1) are receiving these same wastes. Of these seven, four sites (Davis Street, Berkeley, Alameda and San Leandro Marina) are near completion or in danger of being forced to close. The Marina Site is an engineered fill which accepts primarily inert industrial wastes and demolition materials (Group III wastes). The Albany site has been intermittently closed by court action in a dispute over the extent of fill. The Alameda City site is beyond capacity and should cease filling at the earliest date. While the Berkeley site has 5 or more years capacity, it has had some problems with leachate escaping into Bay waters. However, the city has reached an agreement with the Army Corps of Engineers. In addition to a plan to correct the leachate situation by repairing the dikes, Berkeley is vigorously pursuing a source reduction program which is expected to reduce total city waste going to the landfill by up to 30%. The Davis Street site is near capacity; however, by agreement of the City of San Leandro and (East Bay Regional Park District) the Scavenger Company may be able to continue to fill for approximately 2 years in order to meet design elevations for the shoreline recreation area.

The remaining operating sites (Turk Island,¹ Fremont,¹ and Eastern Alameda County-Vasco Road) have adequate capacity to serve their tributary area past the 20 year planning horizon.

Early implementation of resource recovery could extend the life of all county sites substantially.

¹See limitations in Table I-1.

The efficiency of land disposal at all sites should be questioned in the mid-term and long term. For example, the Fremont site has 22+ years of capacity remaining. It would be unwise for many reasons to continue to dump until this capacity is exhausted when future capacity could be guaranteed through resource conserving and recovery methods. This site is not available for short term use since there is a stipulation in the use permit (City of Fremont) which prohibits importation from outside of the tri-cities service area.¹

The expanded use of the Eastern Alameda County Site at Vasco Road to serve the western portion of the county has been a matter of considerable discussion. The Vasco Sites I and II have approximately 4,700 acre feet of total capacity currently approved for disposal operations. All Vasco Road sites have distance savings relative to Altamont and Vasco I and II may serve the county for the next seven to eight years. It is the policy of the Solid Waste Management Authority of Alameda County that the continued availability of the Vasco Road sites I and II be maintained subject to the possible requirements of further study and evaluation on their substantial expansion.

Any changes in operation of Vasco Sites I or II or use of Vasco Site III would require additional environmental information.

Vasco Site III has a possible capacity of 8,000 acre feet, and will require an Environmental Impact Report.

¹See Table I-1.

TABLE I-1

Existing Landfill Capacity & Status in Alameda Co., October, 1976

| Disposal Site | Class | Existing Service Area | Fill Rate (Acre-ft./yr.) | Remaining Capacity ¹ (Acre-Ft.) | Remarks |
|----------------------------|-------|--|-----------------------------|--|--|
| 1. Albany | II-2 | North County | 3 3/4 | 19 | Accepts only dry refuse; demolition debris and other Group 3 wastes; primary reason for operation is to develop a Marina which should be completed in about 5 years. |
| 2. Berkeley | II-2 | Berkeley | 117 | 744 | Accepts most Group 2 wastes; approximately 4-5 years of capacity remain. |
| 3. Alameda | II-2 | Alameda | 30 | 38 | Accepts Alameda's Group 2 wastes; has reached capacity but will only close when alternative becomes available. |
| 4. Marina | II-2 | Oakland, San Leandro | 200 | 150 | Accepts primarily Group 3 wastes; will close between April and September, 1977. |
| 5. Davis St. | II-2 | Albany, Oakland, Emeryville, Hayward, San Leandro, Castro Valley | 317 | 396 | Major County site; will close when design capacity is reached; accepts all Group 2 wastes. |
| 6. Turk Island | II-2 | Hayward, Newark, Union City, Fremont | 15 | 962/ 1,524 | Accepts dry Groups 2 & 3 materials; final fill height is unresolved and thus the two figures for remaining capacity; many years of operation are possible at existing fill rate. |
| 7. Fremont (Durham Rd.) | II-2 | Fremont, Newark, Union City | 140 | 3,156 | Accepts all Group 2 except industrial wastes; site has many years remaining capacity at current fill rate; importation of refuse from outside of service area prohibited by ordinance. |

TABLE I-1 (con't)

Existing Landfill Capacity & Status in Alameda Co., October, 1976

| Disposal Site | Class | Existing Services | | Remaining Capacity (Acre-Ft.) | Remarks |
|-------------------------------------|-------|--|-----------------------------|----------------------------------|--|
| | | Service Area | Fill Rate (Acre-ft./yr.) | | |
| 8. E. Alameda Co. (Vasco Rd. I) | II-2 | Livermore, Dublin, San Ramon, Pleasanton | 98 | 1,254 | Accepts Group 2 household and municipal garbage and refuse; at least ten years of operation remain at existing fill rate; site is contiguous with Vasco II site. |
| 9. E. Alameda Co. (Vasco Rd. II) | II-2 | Not in Service | 0 | 3,500 | To be put in service when Vasco I site reaches capacity. Additional environmental, financial and other information may be advisable. |
| 10. Altamont Hills Area I | II-1 | Not in Service | 0 | 27,890 | Could accept Group 2 refuse; has received all necessary approvals and identification in A.C. SWM Facilities Plan and approval of A.C. SWM Authority; has 27 years capacity at 1100 acre feet per year. |
| 11. Altamont II-IV | ? | Not in Service | 0 | 40,290 | Must fulfill use permit conditions. Must be approved by A.C. SWM Authority and also be designated in facilities plan. |
| 12. Vasco III | ? | Not in Service | 0 | 8,000 | Must obtain all necessary approvals and permits. |

¹Several of the sites are at capacity now and will close as soon as an alternative to them exists. In these cases, remaining capacity is reported as the fill rate times 1½ years, the approximate time until the alternatives would exist and the sites could be closed.

Alameda County Planning Department
March 16, 1977

The Altamont site has been fully evaluated under the California Environmental Quality Act and has been approved for operation. However, prior to commencement of any activities at all, the site must be a part of the designated facilities plan and approved by the Alameda County Solid Waste Management Authority.¹ This stipulation of the conditional use permit enables the Solid Waste Authority to plan transfer and recovery facilities and to coordinate disposal site use without making a long term commitment to a new land disposal site. Thus the wise use of the resource is encouraged.

At the January 6, 1977, meeting of the Alameda County Solid Waste Management Authority the Altamont site was approved for inclusion in the facilities plan. The approved Area I has approximately 27,890 acre feet of capacity; the company intends to fill at a rate of about 1100 acre feet per year. The phasing in of this site is discussed in subsequent sections but in general will follow the closing of close-in sites in 2 - 2½ years.

III Disposal Alternatives - Waste Flow

In reference to sites other than Davis Street, adequate disposal capacity is available for the next 2 - 3 years, at which time close-in disposal sites will be near to or at capacity. In reference to the Davis Street landfill, two alternatives exist:

1. The disposal permit will be extended for approximately two years past March 31, 1977; or
2. The Davis Street site will cease operations March 31, 1977. This alternative would force the immediate long-haul of garbage to the Vasco Road or other available sites until Altamont is in operation.

¹The Facilities Plan must also be approved by the State.

In the intervening months several events will have to occur simultaneously in order to shift collection operations from close-in sites to transfer/recovery stations and remote land disposal. Prior to the hauling of refuse to a remote landfill adequate evaluation of the impact on energy conservation of long haul alternatives must occur and adequate transfer facilities must be constructed to serve the Central Metropolitan and Eden Planning Units. For the moment the Washington and Livermore-Amador Planning Units will be ignored since adequate short-term disposal has been secured. One and one half to two years will be needed to design and construct the transfer/recovery facilities, obtain long-haul capacity, and to make ready the Altamont Site. The Vasco Road Site could be ready for receiving refuse from the Central Metropolitan Planning Unit and Eden Planning Unit in 6+ months. The Oakland Scavenger Company has stated that the Altamont site can be made ready in 6 months.

During this period materials recovery technology can be further evaluated and a system designed for local needs. Energy recovery systems can also be examined and if necessary further evaluated for local use. By the end of 1977, some firm decision should have been made on materials recovery and a system design should be in hand. By this time also a preliminary design for energy recovery more specific and up to date than the Ralph M. Parsons report on Union Carbides' Purox System, should also be in hand.

In the period between January, 1977 and late 1985 waste flow from the four Alameda County Planning Units to Eastern Alameda County disposal sites is shown schematically in different waste disposal schemes. These alternatives show what will happen if total disposal occurs at Vasco Road or at both the Vasco Road and Altamont Sites between January 1977 and late 1985.

Figure I-3

SOLID WASTE FLOW & REMAINING LANDFILL CAPACITY ALAMEDA COUNTY, DECEMBER, 1976

EXISTING FLOW
(FOR INFORMATION ONLY)

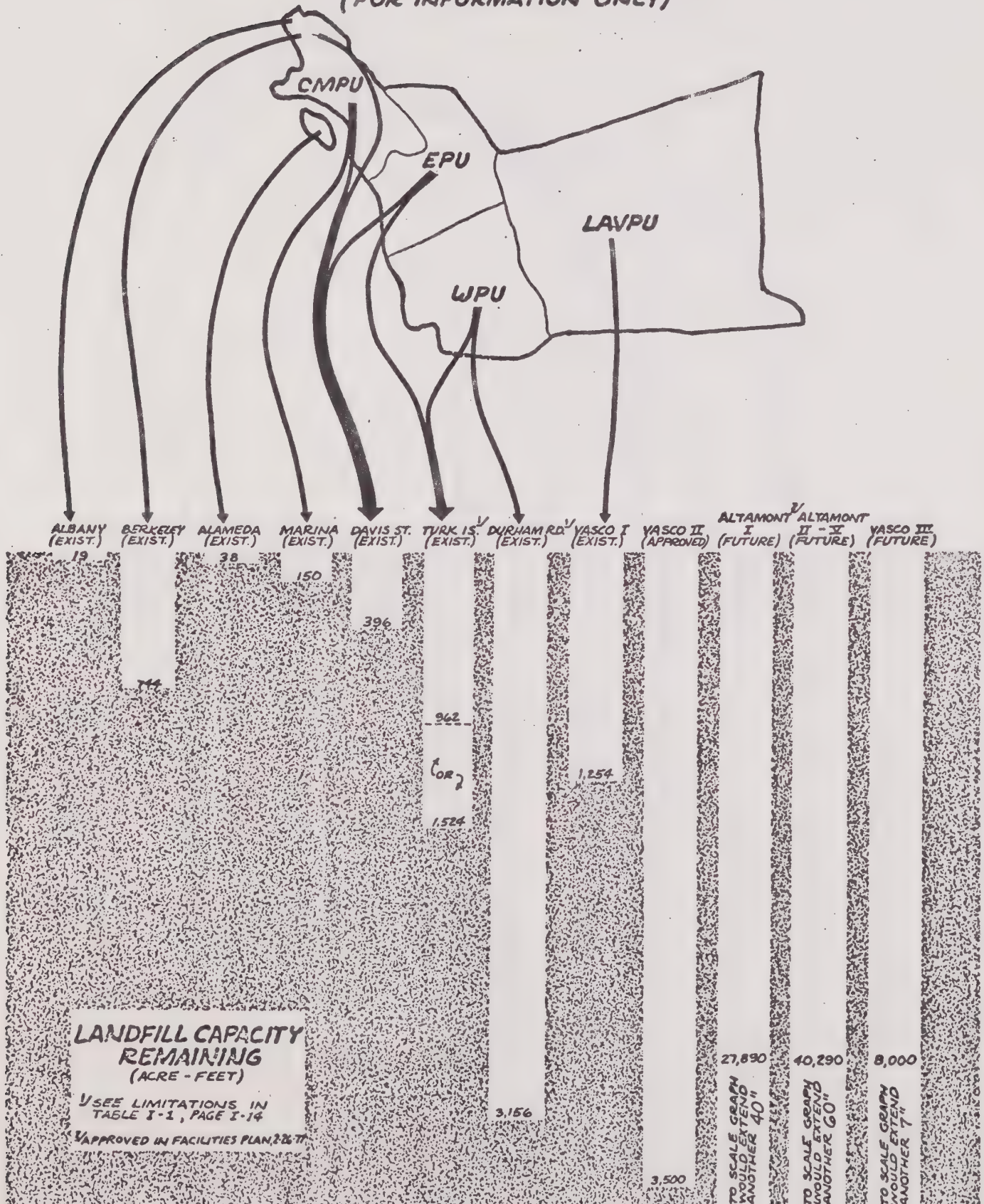


Figure 1-4

SOLID WASTE FLOW & REMAINING LANDFILL CAPACITY ALAMEDA COUNTY, JAN-MAR, 1978

TRANSFER-LONGHAUL BEGINS
(FOR INFORMATION ONLY)

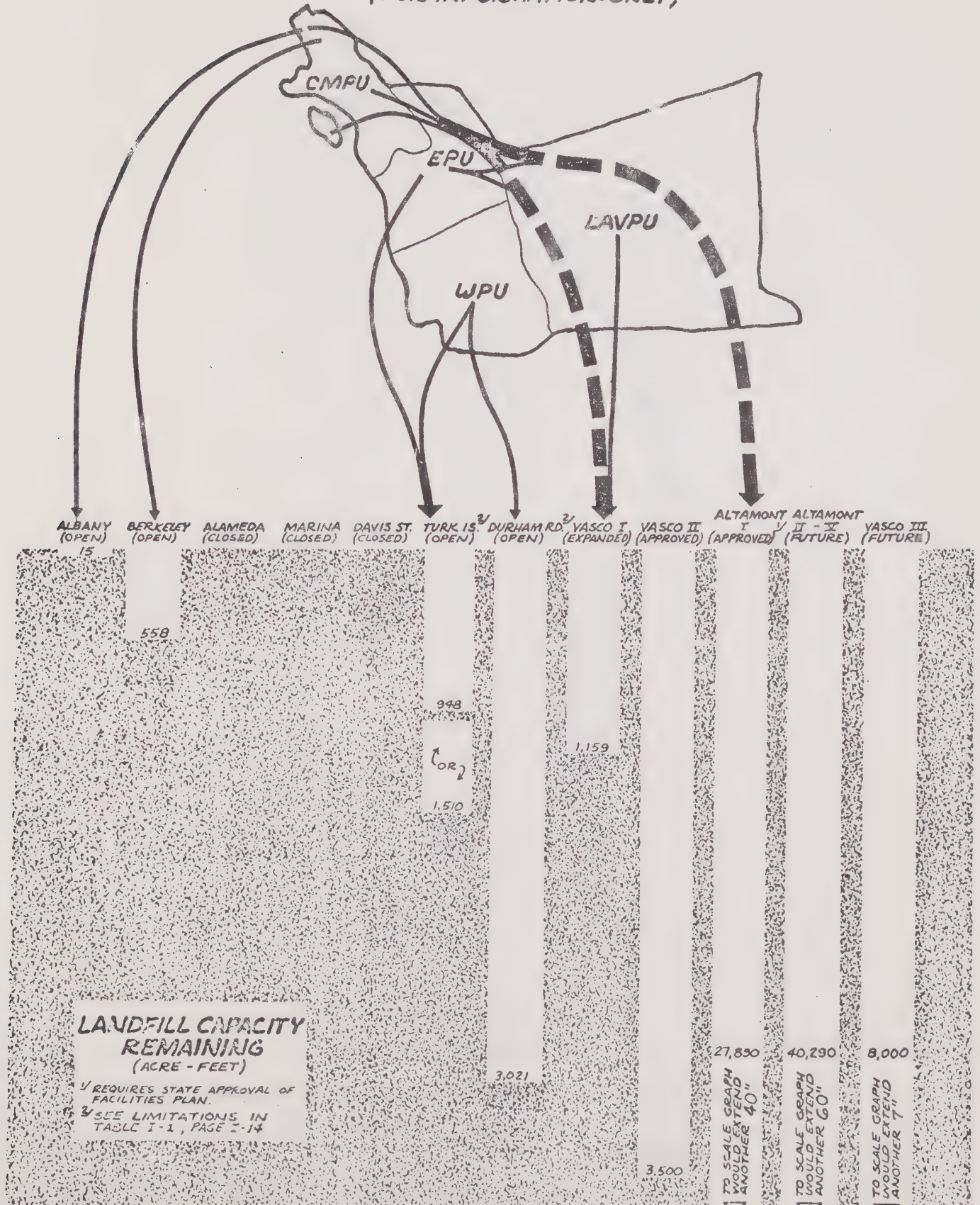


Figure 1-5

**SOLID WASTE FLOW & REMAINING LANDFILL CAPACITY
ALAMEDA COUNTY, JAN-MAR, 1981**
MATERIALS RECOVERY BEGINS
(FOR INFORMATION ONLY)

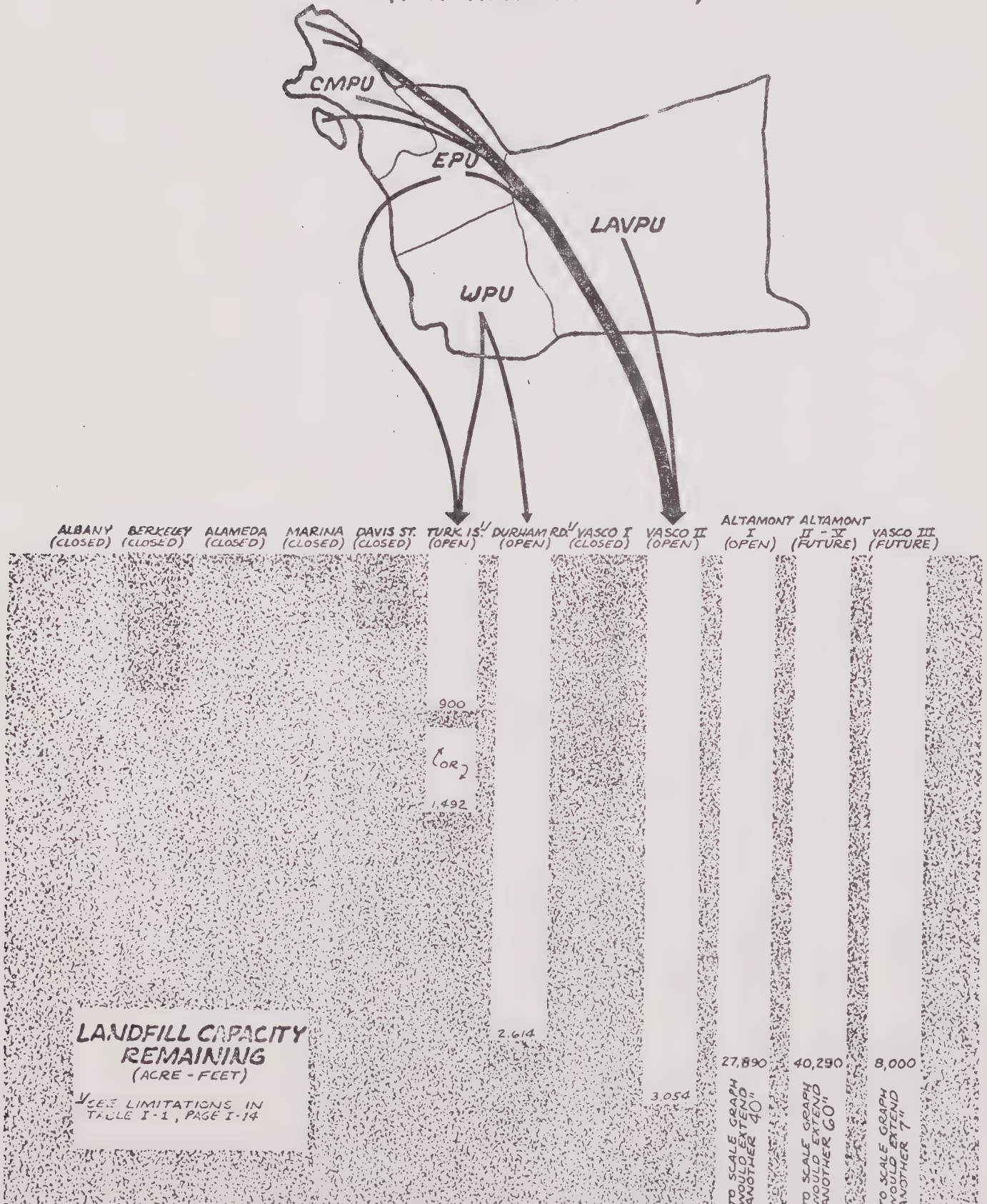


Figure 1-6

**SOLID WASTE FLOW & REMAINING LANDFILL CAPACITY
ALAMEDA COUNTY, JAN-MAR, 1981**
MATERIALS RECOVERY BEGINS
(FOR INFORMATION ONLY)

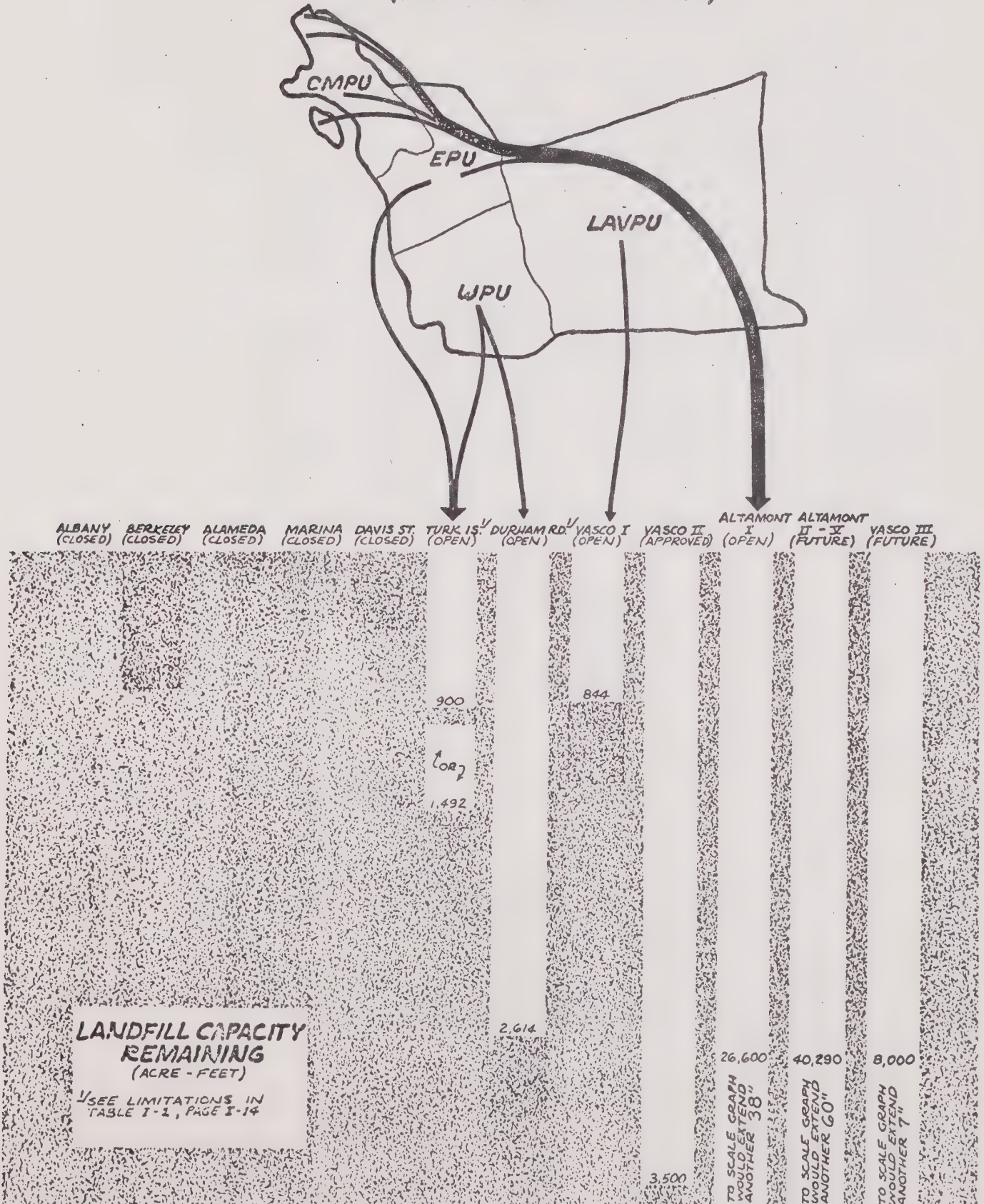
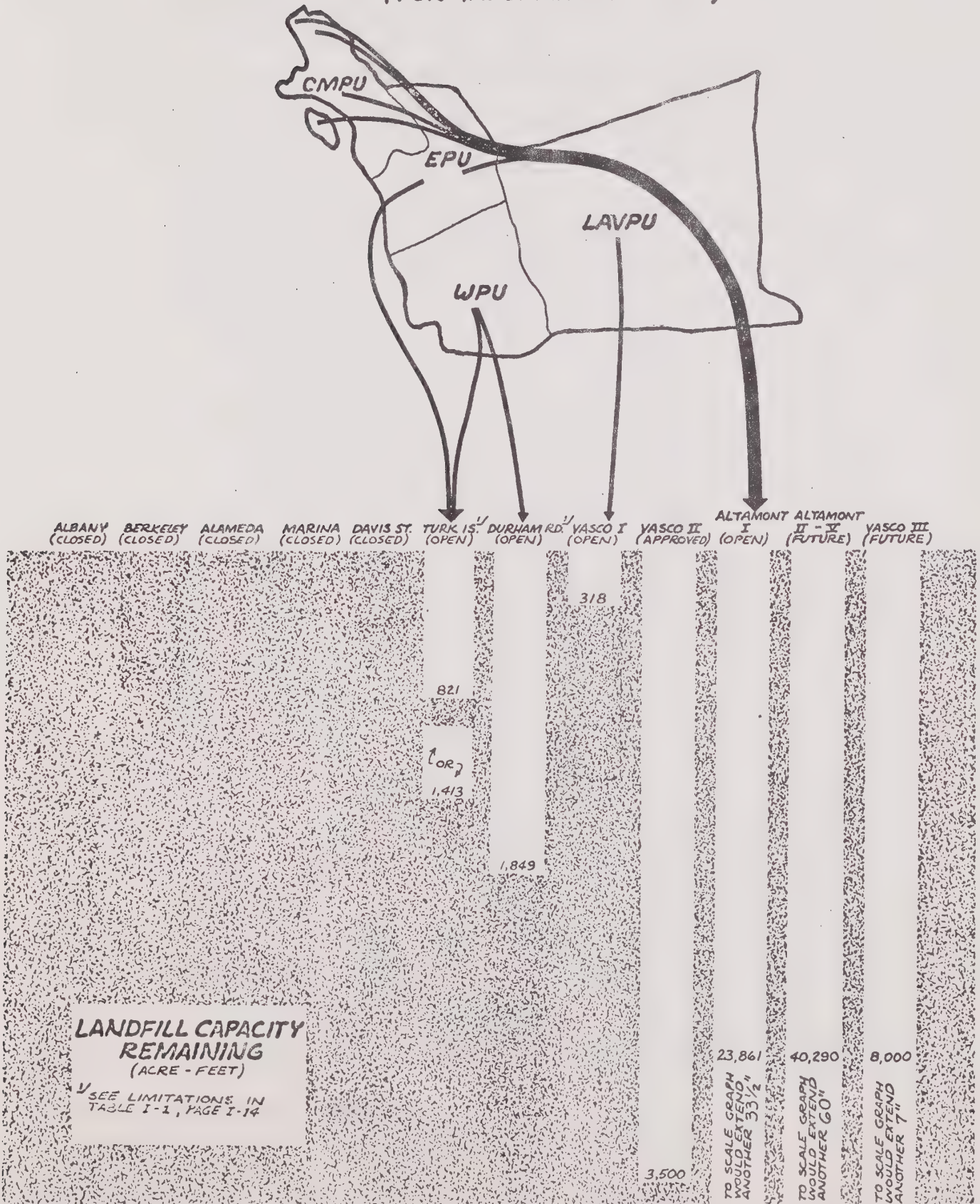


Figure 1-7

**SOLID WASTE FLOW & REMAINING LANDFILL CAPACITY
ALAMEDA COUNTY, JUL-SEP, 1985**
ENERGY RECOVERY POSSIBLE
(FOR INFORMATION ONLY)



IV Interim Facilities Plan - Implementation Timetable

The most pressing problem in the short and mid term is to synchronize the construction of transfer stations and the implementation of resource recovery within the Central Metropolitan and Eden Planning Units with the closing of the west county sites and the use of Vasco Road and Altamont. The disposal capacity for the metropolitan area must be secured in west county sites for from 2-2½ years from January, 1977. During this period of time the Solid Waste Management Authority can carefully design and evaluate transfer and recovery systems geared to reduce the waste headed for land disposal.

Since there is speculation concerning materials and energy recovery systems which must be clarified in the next year, the most conservative approach would be to rely upon part of the disposal capacity at existing sites until early to mid 1979 and then begin phasing in the Altamont Site in mid 1978 to allow adequate preparation time. However, it may be necessary to phase-in disposal operations for Altamont sooner or earlier than mid 1978.

It is anticipated that as long as 12 months may be needed prior to placing refuse in Altamont to make the site ready to construct transfer stations in the west county and to obtain transfer vehicles. Therefore, site preparation could begin as late as 6-12 months prior to the closing of Davis Street site or as early as late 1977 or early 1978. The preparation time should be verified along with the preparatory operations. With this information and regular quarterly reports to the Authority Board on progress made at other points in the system, a decision on the operation of a new landfill or transfer station may be made at any reasonable time in the future.

Table I-2 Implementation Timetable

- Jan., 1977 - July 1979 - Continued Disposal of wastes at existing West County sites.
- Jan., 1977 - Review and Approval of Short Term Facilities Plan by Solid Waste Management Authority of Alameda County.
- July, 1977 - Review of Disposal Situation - Report to Authority. Earliest date for commencement of Site Preparation at Altamont.
- July, 1977 - Review of Disposal Situation - Report to Authority.
- July, 1977 - Begin a study of landfill conservation, through compaction and resource recovery and efficient operation of appropriate transfer stations.
- July, 1977 - January 1978 - Assuming 12 month preparation necessary for Altamont - Review and Decision on Use of Vasco Road and Phasing-in of Altamont Disposal Site.
- Jan., - July,
1979 Begin haul to East County disposal site (Vasco Road or Altamont) coordinated with construction of transfer stations and purchase of long haul vehicles.

January 1977 Recommendations:

1. Conserve landfill through source reduction and better compaction.
2. Encourage extension of disposal permit at Davis Street.
3. Secure 2½ minimum year disposal capacity at Vasco Road; designate Altamont as Solid Waste Landfill Site.
4. Phase-in the Altamont site in the mid-term or as soon as decisions on transfer stations, material recovery and energy recovery can be made.

V SHORT TERM FACILITIES PLAN POLICIES

1. Any jurisdiction which can use and import garbage can develop a sophisticated system for dealing with the program and may proceed as long as the system added is advanced or improved over burial and is in conformance with the goals of the plan.
2. Conservation of land fill sites should be encouraged through use of compaction at existing sites; source separation and source reduction.
3. The Solid Waste Management Authority shall develop and adopt administrative procedures to facilitate implementation of the Solid Waste Management Facilities Plan at the earliest possible time.

VI. SOLID WASTE MANAGEMENT FACILITIES PLAN OUTLINE

1. SHORT TERM FACILITIES PLAN

- A. Summary & Conclusions For Short Term Decisions
 - 1. State & County Planning Considerations
 - 2. Local Planning Considerations
- B. Existing Disposal Capacity
- C. Disposal Alternatives - Waste Flow
- D. Interim Facilities - Implementation Timetable

Preliminary Guidelines For Mid & Long Term Plan

II. BACKGROUND & METHODOLOGY

- A. Alameda County Solid Waste Managment Plan, May 18, 1976
 - a. Summary of background work
 - b. Plan policies & mandates
- B. Facilities Plan Methodology
 - 1. Objectives
 - 2. Introduction
 - 3. Methodology

III. MID-TERM SOLID WASTE FACILITIES PLAN - SIMPLE TRANSFER STATIONS

- A. Introduction
- B. Problem statement - Constraints
- C. Alternative mid-term solutions
 - a. Two station alternative
 - b. Three station alternative
 - c. Three or four station alternative
 - d. Other alternatives
- D. Cost Analysis
 - 1. Collection route to freeway on-ramp - "A" cost
 - 2. Freeway on-ramp to transfer station - "B" cost
 - 3. Transfer station costs
 - 4. Long haul cost
- E. Analysis of Proposed Alternatives
 - a. Optimum solution
- F. Conclusions & Recommendations

IV. CONVERSION TO MATERIALS RECOVERY (MID-TERM, 1980-1985+)

- 1. Problem Statement
 - a. Political, etc. constraints
- 2. Alternative solutions
 - a. Two station solution
 - b. Three station solution
 - c. Three or four station solution
 - d. Source separation solution
 - e. Other solutions
- 3. Cost analysis, front-end separation
 - a. Base separation costs
 - b. Revenues: marketing studies, bottle bill
 - c. Net base front-end costs

4. Cost analysis for source separation
 - a. Base operation costs
 - b. Revenues, etc.
 - c. Net base source separation costs
5. Summary & Conclusions
 - a. General conclusions: scale, markets, bottle bill, etc.
 - b. Comparison of solutions

V. DISPOSAL FACILITIES

1. Existing capacity
2. Future capacity
 - a. Preferred sites and implementation timetable
 - b. Evidence of environmental acceptability

VI. LONG-TERM CONSIDERATIONS

1. Problem statement and constraints
 - a. Energy recovery
 - b. Washington Planning Unit
 - c. Livermore-Amador Planning Unit

VII. FACILITIES FINANCING (tentative outline)

1. Summary of capital requirements of alternative solutions
2. Alternative sources of funds
3. Analysis
4. Conclusions

VIII. EIR

VII. PROGRAM FOR COMPLETION OF MID AND LONG TERM PROGRAM

A. Responsibility for Study:

Alameda County Solid Waste Management Joint Powers Agreement Board:

The plan content will follow Item II-VIII as outlined under "Preliminary Guidelines for Mid and Long Term Plan."

An Executive Officer and clerical support will be retained by the Solid Waste Management Authority to be responsible for the administration of the authority and coordination of the study program. This will be completed and in operation no later than June 1, 1977.

Consultants will be retained to perform the professional support to complete the tasks indicated in the study outline.

B. Study Timetable:

The process to employ a permanent Executive Officer and clerical support has been initiated and will be completed by June 1, 1977.

The plan as outlined will be initiated on July 1, 1977 and be completed and submitted to the State Solid Waste Management Board by June 30, 1978.

Reports to the State Solid Waste Management Board will be made at the completion of each major phase of the study and on September 30, 1977, December 30, 1977, March 31, 1978, indicating the status of the total program.

C. Method of Financing Study:

Financing is to be provided by direct assessment of the member agencies of the Authority.

The initial year appropriations will be assessed on the formula based on 50% by member agencies vote and 50% per capita within member agencies.

Funds from Federal and State grant programs and foundations and industry grants are to be explored to assist in extending the fiscal base of the authority.

The joint powers agreement indicates that the authority may request staff support from the County of Alameda and it shall be provided as may be necessary to fulfill the duties of the Board.

The County Planning Department will provide staff support as necessary through June 30, 1977 and be available for subsequent consultation.

APPENDIX

- 1) Alameda County Solid Waste Management Authority, March 16, 1977
- 2) Joint Exercise of Powers Agreement for Solid Waste Management
- 3) Amendment to Joint Exercise of Powers Agreement for Solid Waste Management

ALAMEDA COUNTY SOLID WASTE MANAGEMENT AUTHORITY

Jack D. Maltester, Chairman - City of San Leandro
C. J. Corica, First Vice-Chairman - City of Alameda
Arthur Vargas, Second Vice-Chairman - Castro Valley Sanitary District

MEMBERS

Joseph P. Bort - Alameda County
Lewis M. Howell - City of Albany
Shirley Dean - City of Berkeley
Wyllie Eaton - City of Emeryville
Gene Rhodes - City of Fremont
Nicholas Randall - City of Hayward
Glen Dahlbacka - City of Livermore
David W. Smith - City of Newark
John Reading - City of Oakland
Connie Shapiro - City of Piedmont
Kenneth Mercer - City of Pleasanton
Richard Oliver - City of Union City
Carl Franson - Oro Loma Sanitary District
Richard Fahey - Valley Community Services District

ALTERNATES

Anne Diament - City of Alameda
Robert Luoma - City of Albany
Warren Widener - City of Berkeley
Wallace E. Fox - City of Emeryville
Gail Steele - City of Hayward
Helen M. Tirsell - City of Livermore
Shirley D. Sisk - City of Newark
Fred Maggiora - City of Oakland
Tony Loughran - City of Piedmont
Robert C. Philcox - City of Pleasanton
Vallance Gill - City of San Leandro
Marshall Stone - City of Union City
Loren D. Simpson - Oro Loma Sanitary District
L. C. Ladner - Valley Community Services District

Plan Report prepared by Alameda County Planning Department Staff.

March 16, 1977

JOINT EXERCISE OF POWERS AGREEMENT
FOR SOLID WASTE MANAGEMENT

This Agreement, entered into this day of SEP - 2 1976 ,
1976, by and between the undersigned public agencies, all of said
parties referred to collectively as the "AGENCIES";

W I T N E S S E T H :

California Government Code, Section 66780, et seq., requires the
adoption of countywide solid waste management plans in order to protect
the environment and provide for safe, sanitary and economical disposal
of solid waste.

The objective of this joint exercise of powers agreement is to
create a city-county-special district solid waste management authority
responsible for and capable of plan implementation, plan administra-
tion, policy-making, budgetary, planning and enforcement of the Alameda
Countywide Solid Waste Management Plan of which this Agreement forms
a part.

The Alameda Countywide Solid Waste Management Plan has been
approved and adopted pursuant to said Government Code, Section 66780.

California Government Code, Section 6500, et seq. provides that
two or more public agencies by agreement may jointly exercise any
power common to the contracting powers.

NOW, THEREFORE, THE AGENCIES AGREE AS FOLLOWS:

1. OBJECTIVE

The purpose of this Agreement is to provide a means of
carrying out the Alameda Countywide Solid Waste Management Plan,
hereafter referred to as "The Plan."

2. DEFINITIONS

Certain words as used in this Agreement shall be defined as
follows:

a. "Board" shall mean the board constituted herein pursuant
to this Agreement to administer and execute this Agreement.

b. "Agency" shall mean each City, County, or special district which is a signatory to this Agreement.

c. "Solid Waste Management Authority" shall mean the public and separate agency created by this Agreement.

3. EFFECTIVE DATE

This Agreement shall become effective thirty (30) days after the County of Alameda has adopted a Countywide Solid Waste Disposal Plan pursuant to Government Code Section 66780.

4. CREATION OF AUTHORITY

There is hereby created a Solid Waste Management Authority (hereinafter referred to as "Authority") to exercise in the manner hereinafter set forth the powers common to each of the Agencies. The Authority shall be a public entity separate from the Agencies. No debt, liability, or obligation of the Authority shall constitute a debt, liability, or obligation of any Agency, and each party's obligation hereunder is expressly limited only to the appropriation and contribution of such funds as the parties hereto may agree to and direct in accordance with the Plan and this Agreement.

5. POWERS

The Authority shall have the power to administer and enforce the provisions of the Alameda Countywide Solid Waste Management Plan, and is hereby authorized in its own name to perform all acts necessary for the exercise of said power, including but not limited to the following:

- (a) to make and enter into contracts;
- (b) to apply for and accept grants, advances, and contributions;
- (c) to employ or contract for the services of agents, employees, consultants and such other persons or firms as it deems necessary;
- (d) to make plans and conduct studies; to periodically review the Solid Waste Management Plan and recommend amendments thereto;

- (c) to acquire, construct, manage, maintain, operate, and control any buildings, works, or improvements;
- (f) to acquire, hold or dispose of property;
- (g) to sue and be sued in its own name;
- (h) to incur debts, liabilities, or obligations, subject to limitations herein set forth;
- (i) to levy and collect fees and charges, including administrative and operating costs, as provided in the Plan, against all entities to which the law applies, both signatory and non-signatory to this Agreement;
- (j) to adopt, as authorized by law, ordinances or resolutions necessary for enforcement of the Plan;
- (k) to issue bonds, subject to the provisions and limitations of the Government Code of the State of California;
- (l) to adopt annually prior to the 1st day of April, a budget setting forth all administrative, operational and capital expenses for the Authority, together with the apportionment of such expenses to each agency, all to be in accordance with the Plan.

6. BOUNDARIES

The boundaries of the Authority shall be the boundaries of the County of Alameda.

7. ORGANIZATION

(a) Solid Waste Management Board

The Authority shall be governed by the Solid Waste Management Board which shall exercise all powers and authority on behalf of the Authority.

The Board is empowered to establish its own procedures. The Board may do any and all things necessary to carry out the purposes of this Agreement.

(b) Members

The Board shall consist of one member of the governing body of each of the Agencies. Upon execution of this agreement, the

governing body of each Agency shall appoint one of its members to serve as a member of the Board and another of its members to serve as an alternate member of the Board to serve in the absence of the regular appointee. Each member and alternate shall hold office from the first meeting of the Board after his appointment until a successor is selected. Each member and alternate shall serve at the pleasure of the governing body of the Appointing Agency.

(c) Vote

In order to reasonably represent the population of the Agencies, each member shall have one vote except that the member selected by the City of Oakland shall have three votes and the member selected by the County of Alameda shall have two votes.

(d) Vote Required

A two-thirds majority of the authorized vote shall be required for the adoption of a resolution or ordinance. A majority vote of those present and voting shall be required for any other action.

(e) Meetings of the Board

1. Regular Meetings

The Board shall hold at least one regular meeting each year. The date upon which, and the hour and place at which each such regular meeting shall be held shall be fixed by resolution of the Board.

2. Special Meetings

Special meetings of the Board may be called in accordance with the provisions of Section 54956 of the California Government Code.

3. Notice of Meetings

All meetings of the Board shall be held subject to the provisions of the Ralph M. Brown Act, being Sections 54950 et seq. of the California Government Code, and other applicable laws of the State of California requiring notice of meetings of public bodies to be given.

4. Minutes

The Board shall cause minutes of all meetings to be kept and shall, as soon as possible after each meeting, cause a copy of the minutes to be forwarded to each member of the Board and to each Agency.

5. Quorum

A majority of the members of the Board shall constitute a quorum for the transaction of business, except that less than a quorum may adjourn from time to time.

(f) By-Laws

The Board shall adopt from time to time such by-laws, rules or regulations for the conduct of its affairs as may be required.

8. STAFFING

Upon request of the Board, the County of Alameda shall provide the necessary staff support to the Board as may be necessary for the Board to fulfill its duties.

9. RESTRICTIONS UPON EXERCISE OF POWER OF BOARD

This Agreement is entered into under the provisions of Article I of Chapter 5, Division 7, Title 1 of the Government Code, concerning joint powers agreements. The powers to be exercised hereunder shall be subject to the restrictions upon the manner of exercising the power of the County of Alameda.

10. FUNDS, AUDIT AND ACCOUNTING SERVICES

Pursuant to the requirements of Section 6505.5 of the Government Code, the Treasurer of the County of Alameda is designated to be the depository and to have custody of all project funds from whatever source, and to perform the following functions:

(a) Receive and receipt for all money for the project and place it in the County Treasury of Alameda County for the credit of the Board;

(b) Be responsible upon official bond for the safekeeping and disbursement of all Board money so held;

(c) Pay any sums due from the Board from Board money, or any portion thereof, only upon warrants of the public officer performing the functions of auditor or controller who has been so designated pursuant to this Agreement; and

(d) Verify and report in writing on the first day of July, October, January and April of each year to the Board and to the contracting parties to this Agreement the amount of money the Treasurer holds for the Board, the amount of receipts and the amount paid out since the last report to the Board.

The functions of auditor shall be performed for the Board by the Auditor of Alameda County. The Auditor shall draw warrants to pay demands against the Board when the demands have been approved by the Board or by a person authorized by the Board to so approve.

There shall be strict accountability of all funds and the Auditor of the County of Alameda will report to the Board of Control all receipts and disbursements. In addition, the Auditor of the County of Alameda will either make or contract for an audit of the accounts and records at least annually as prescribed by Section 6505 of the Government Code. In each case the minimum requirements of the audit shall be those prescribed by the State Controller for special districts under Section 26909 of the Government Code and the audit shall conform to generally accepted auditing standards.

11. DISPOSITION OF AUTHORITY FUNDS UPON TERMINATION

Authority funds, including any interest earned on deposits, remaining upon termination of the Solid Waste Management Authority after payment of all obligations, shall be returned in proportion to the contribution to each Agency during the term of this Agreement. Decisions of the Board shall be final in this regard.

12. SUBSEQUENT SIGNATORIES

Eligible entities as specified in the Plan may, on their own motion, become signatory agencies to this Agreement at any time subsequent to the effective date hereof.

13. WITHDRAWAL

Any Agency upon two years' written notice given to the

Solid Waste Management Board prior to July 1st of any year may withdraw from this Agreement.

14. AMENDMENTS

This Agreement may be amended by the affirmative vote of the governing bodies of not less than two-thirds of all member Agencies.

15. NOTICES

All notices to Agencies shall be deemed to have been given when mailed to the legislative body of each Agency. Notices to the Solid Waste Management Board shall be sent to said Board at an address to be officially established by the Board.

IN WITNESS WHEREOF, each AGENCY has executed approval of this Agreement and filed said approval with the Clerk of the County of Alameda.

Fred F. Corbin

Chairman, Board of Supervisors, Alameda County

SEP - 2 1976

Date

C. J. Pica

Mayor, City of Alameda

8/5/76

Date

James J. Johnson

Mayor, City of Albany

7-2-76

Date

Samuel D. Akane

Mayor, City of Berkeley

8-10-76

Date

William P. S. S. S.

Mayor, City of Emeryville

8-5-76

Date

Gene Rodde

Mayor, City of Fremont

8-9-76

Date

John J. McManis

Mayor, City of Hayward

8-7-76

Date

William J. Pica

Mayor, City of Livermore

8-6-76

Date

Mayor, City of Newark

Date

Mayor, City of Oakland

Date

Mayor, City of Piedmont

Date

Mayor, City of Pleasanton

Date

Mayor, City of San Leandro

Date

Mayor, City of Union City

Date

President, Board of Directors, Castro Valley Sanitary District

Date

President, Board of Directors, Oro Loma Sanitary District

Date

President, Board of Directors, Valley Community Services District

Date

REEL.....IMAGE.....

September 2, 1976
Approved as to Form

RICHARD J. MOORE, County Counsel

By.....Deputy

THE BOARD OF SUPERVISORS OF THE COUNTY OF ALAMEDA, STATE OF CALIFORNIA

On motion of Supervisor.....Bort....., Seconded by Supervisor.....Santana.....
and approved by the following vote,
Ayes: Supervisors.....Bort, Santana and Temporary Chairman Murphy - 3.....
Noes: Supervisors.....None.....
Excused ~~in Absence~~ Supervisors.....Bates and Chairman Cooper - 2.....

THE FOLLOWING RESOLUTION WAS ADOPTED:

NUMBER 168647

EXECUTE AGREEMENT

BE IT RESOLVED that the Chairman of this Board of Supervisors be and he is hereby
authorized and directed to execute on behalf of the County of Alameda that certain
Joint Exercise of Powers Agreement by and between the County of Alameda and the
following public jurisdictions:

City of Alameda
City of Albany
City of Berkeley
City of Emeryville
City of Fremont
City of Hayward
City of Livermore
City of Newark
City of Oakland
City of Piedmont
City of Pleasanton
City of San Leandro
City of Union City
Castro Valley Sanitary District
Oro Loma Sanitary District
Valley Community Services District

providing for a means of carrying out the Alameda County Solid Waste Management Plan;
and

BE IT FURTHER RESOLVED that the Clerk of this Board be and he is hereby directed
to transmit to the State Solid Waste Management Board the Alameda County Solid Waste
Management Plan.

I CERTIFY THAT THE FOREGOING IS A COR-
RECT COPY OF A RESOLUTION ADOPTED BY
THE BOARD OF SUPERVISORS, ALAMEDA

COUNTY, CALIFORNIA SEP - 2 1976

ATTEST: SEP 14 1976

JACK N. POOL, CLERK OF
THE BOARD OF SUPERVISORS

BY: *Shelley D. J.*

AMENDMENT TO JOINT EXERCISE OF POWERS AGREEMENT
FOR SOLID WASTE MANAGEMENT

Recitals

The County of Alameda, the cities of Alameda, Albany, Berkeley, Emeryville, Fremont, Hayward, Livermore, Newark, Oakland, Piedmont, Pleasanton, San Leandro and Union City, the Castro Valley Sanitary District, the Oro Loma Sanitary District and the Valley Community Services District are parties to a Joint Exercise of Powers Agreement dated September 2, 1976. Said Agreement may be amended by affirmative vote of the governing bodies of not less than two-thirds of all member agencies.

It is to the mutual benefit of all parties that said Agreement be amended as hereinafter set forth.

NOW, THEREFORE, the agencies agree as follows:

Section 1. That Paragraph 5 of said Agreement headed "POWERS" is hereby amended by the addition thereto of a new subsection (m), said subsection to read as follows:

(m) To develop and adopt, and from time to time revise, a countywide Facilities Plan not inconsistent with provisions of the Alameda County Solid Waste Management Plan, which on adoption shall be deemed an element of the Solid Waste Management Plan for purposes of Section 66780 of the Government Code of the State of California.

Section 2. In all other respects, said Agreement is hereby ratified, approved and confirmed.

DATE: March 23, 1977

COUNTY OF ALAMEDA

By 

DATE: March 16, 1977

CITY OF ALAMEDA

By *J. Cario*

DATE: _____

CITY OF ALBANY

By _____

DATE: _____

CITY OF BERKELEY

By _____

DATE: 3-17-77

CITY OF EMERYVILLE

By *Hallan E. Joy*

DATE: March 16, 1977

CITY OF FREMONT

By *Gene Rhodes*

DATE: 3-18-77

CITY OF HAYWARD

By *Ilse Weinst*

DATE: _____

CITY OF LIVERMORE

By _____

DATE: _____

CITY OF NEWARK

By _____

DATE: 3/22/77

CITY OF OAKLAND

By *D. H. Long*

DATE: 3/22/77

CITY OF PIEDMONT

By *Clark B. Clough*

DATE: March 16, 1977

CITY OF PLEASANTON

By 

DATE: March 16, 1977

CITY OF SAN LEANDRO

By 

DATE: _____

CITY OF UNION CITY

By _____

DATE: 3/23/77

CASTRO VALLEY SANITARY DISTRICT

By 
PRESIDENT PRO TEM

DATE: 3/18/77

ORO LOMA SANITARY DISTRICT

By 

DATE: March 18, 1977

VALLEY COMMUNITY SERVICES DISTRICT

By 

Union City adopted the Amendment to the
Joint Powers Agreement on March 21, 1977.

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